Österreichische Akademie der Wissenschaften
Mathematisch-Naturwissenschaftliche Klasse und
Gesellschaft Österreichischer Chemiker

Monatshefte für Chemie

Chemical Monthly

Herausgeber-Kollegium/Editorial Board

E. Hengge, Graz
A. Neckel, Wien
K. Schlögl, Wien (Managing Editor)
U. Schmidt, Stuttgart
H. Tuppy, Wien

Vol. 119, 1988

ISSN 0026-9247

Springer-Verlag Wien New York

Monatshefte für Chemie

Chemical Monthly

Fachbeirat/Advisory Board

H. Brunner, Regensburg
J. D. Dunitz, Zürich
E. A. V. Ebsworth, Edinburgh
H. Falk, Linz
G. H. Findenegg, Bochum
E. O. Fischer, München
H. L. Gruber, Innsbruck
V. Gutmann, Wien
G. Hauska, Regensburg
J. F. K. Huber, Wien
H. Junek, Graz
F. Kohler, Bochum
O. Kratky, Graz
R. Lacmann, Braunschweig
K. Mislow, Princeton, N.J.
A. Müller, Bielefeld
E. Nachbaur, Graz
H. Nowotny, Wien
O. F. Olaj, Wien
W. Oppolzer, Genf
F. Paltauf, Graz
W. von Philipsborn, Zürich
O. E. Polansky, Mülheim/Ruhr
K. Rossmanith, Wien
H. Ruis, Wien
F. Sauter, Wien
K. Schaffner, Mülheim/Ruhr
J. Schantl, Innsbruck
G. Schatz, Basel
H. Schmidbaur, München
T. Schönfeld, Wien
P. Schuster, Wien
G. Spiteller, Bayreuth
O. Vogl, Brooklyn, N.Y.
U. Wannagat, Braunschweig
E. Zbiral, Wien

Redaktionssekretär/Editorial Assistant: O. Hofer, Wien

Alle Rechte, einschließlich das der Übersetzung in fremde Sprachen und das der photomechanischen Wiedergabe oder einer sonstigen Vervielfältigung, auch in Mikroform, vorbehalten
The exclusive copyright for all languages and countries, including the right for photomechanical and any other reproductions including microform is transferred to the publisher

© 1988 by Springer-Verlag/Wien

Autorenverzeichnis/Author Index

Abdel-Hamid R. Mechanism of the voltammetric reduction of phenolphthalein at the mercury electrode in *DMF* 429

Azab H. A., s. *Hassan A.*

Badia M. D., s. *Mendoza J. d.*

Baldus P., Blachnik R., Schneider C. Konzentrationen von Isomeren des Typs $P_mAs_{4-m}X_3$ in $P_4S_3 - As_4S_3$- und $P_4Se_3 - As_4Se_3$-Mischungen 515

Bartsch H., Erker T., Neubauer G. Untersuchungen zur Synthese von Triazolo[2,3-c][1,4]benzoxazinen. 17. Mitt. über Studien zur Chemie der 1,4-Oxazine 1439

Bathe A., s. *Reisch J.*

Becker A., s. *Beyer A.*

Beurkens P. T., Perales P. T., Martin-Gil F. J., Martin-Gil J. Crystal structures and thermal decomposition of *trans*-$Pd(Creat)_2Cl_2 \cdot 2\,H_2O$ and *cis*-$Pt(Creat)_2I_2 \cdot 3\,H_2O$ 1189

Beyer A., Wolschann P., Becker A., Pranka E., Buchbauer G. Conformational calculations on odoriferous molecules of sandalwood, I. The search for the odoriferous principle of sandalwood 711

Blachnik R., s. *Baldus P.*

Blasczyk K., s. *Paryzek Z.*

Block G., Jeitschko W. The crystal structure of $U_5Re_3C_8$ 319

Bocelli G., s. *Bruni P., Tosi G.*

Böhlig H., s. *Geidel E.*

Borsdorf R., s. *Meusinger R.*

Bradshaw J. S., Golič L., Tišler M. Experiments towards the preparations of some binaphthalene derivatives 327

Brandstetter H., s. *Zbiral E.*

Breitmaier E., s. *Wendelin W.*

Bruni P., Cardillo B., Tosi G., Bocelli G. *p*-(Tricyanovinylidene)phenylhydrazones. Nucleophilic attack on carbon-carbon double bonds 1375

Bruni P., Conti C., Tosi G. 2,2′-Diphenyl-3,3′-bi-3*H*-indole-1,1′-dioxide: Competitive demethylation and redox reactions 1311

Brunner H., Fisch H. Asymmetrische Katalysen, 39. Monohydrosilane in der enantioselektiven katalytischen Hydrolisierung prochiraler Ketone 525

Brunner H., Kraus J., Lautenschlager H.-J. Synthesis of optically active *Michael* adducts via chiral enamines 1161

Brunvoll J., s. *Cyvin B. N.*

Brzyska W., Rzaczyńska Z. Complexes of heavy lanthanides with *o*-aminobenzoic acid 147

Brzyska W., s. *Ferenc W.*

Buchbauer G., s. *Beyer A.*

Buggle K., Ghógáin U. N., MacManus P. Some reactions of 2*H*-[1]benzothieno[3,2-b]pyran-2-ones and related compounds 945

Cai G., s. *Jordis U.*

Cardillo B., s. *Bruni P.*

Chadha S. L., Sharma V. Synthesis, characterization and reaction of 2,2,2-trichloroethoxy derivatives of chromium(III) 553

Choma J., Jaroniec M. Consequence of assuming gamma-type distribution for characterizing structural heterogeneity of microporous solids 545

Conti C., s. *Bruni P.*

Cyvin B. N., Cyvin S. J., Brunvoll J. Number of *Kekulé* structures for circumkekulene and its homologs 563

Cyvin S. J. Contribution to the techniques of enumeration of *Kekulé* structures 41

Cyvin S. J., s. *Cyvin B. N.*

Czakis-Sulikowska D. M., Malinowska A. Complex Formation of certain rare earth metals with 1-(2-pyridylazo)-2-naphthol (*PAN*) in alcohol-water solutions 677

Czakis-Sulikowska D. M., Pustelnik N. The extraction of Yb(III) and Lu(III) with chloroform from aqueous solutions in the presence of cupferron 903

Czakis-Sulikowska D. M., s. *Kuźnik B.*

Czollner L., Szilágyi G., Langó J., Janáky J. 1,2,4-Triazoles, II. Synthesis of 1,5-diphenyl-3-trifluoromethyl-1*H*-1,2,4-triazoles 349

Danklmaier J., Hönig H. Über enantiomerenreines (*R*)-2-Methyl-3-oxo-perhydro-1,4-oxazin 839

Davidson J. S. Some aroyl-4,4-dialkylsemicarbazides and their cyclization to afford 5-aryl-1,3,4-oxadiazol-2(3*H*)-ones 1027

Dobay L., s. *Fischer J.*

Dobner B., s. *Schroth W.*

Doménech J., Miró J. Electrical conductivities of halide salts in aqueous formamide solutions 277

Domonkos L., Ratkovics F. Identification of the enol content in some monoketones by an IR spectroscopic method 177

Dostal W., Heinisch G., Lötsch G. On the chemistry of pyridazines, XXXVI. Novel diaza-analogs of 10,11-dihydro-5*H*-dibenzo[a,d]cyclohepten-5-one 751

Duscheck C., s. *Meusinger R.*

Effenberger H. On the crystal chemistry of three copper(II) aresenates: $Cu_3(AsO_4)_2$-III, $Na_4Cu(AsO_4)_2$, and $KCu_4(AsO_4)_3$ 1103

El-Awad A. M., El-Salaam K. M. A. Action of salt formation on the bifunctional nature of 12-molybdophosphoric acid and their relationship to the catalytic activity 1057

Elbanowski M., s. *Marciniak B.*

El-Salaam K. M. A., s. *El-Awad A. M.*

El-Shahawi A. S., s. *Seleim M. M.*

El-Shatory S. A., s. *Hassan A.*

El-Shatoury S. A., Girgis M. M., Hassan A. Amperometric determination of trivalent arsenic in sulphuric acid solution in the presence of fluoride ions 1357

Erker T., s. *Bartsch H.*

Eshba N. H., s. *Labouta I. M.*

Fabian W., s. *Junek H.*

Faleschini G., Nachbaur E. Si29- und C13-NMR Untersuchungen zur Struktur persililierter Urazole 457

Falk H., Flödl H. Beiträge zur Chemie der Pyrrolpigmente, 76. Mitt.: Die Synthese von symmetrisch substituierten 2,2′-Bipyrrolen durch oxidative Kupplung 247

Falk H., Flödl H. Beiträge zur Chemie der Pyrrolpigmente, 78. Mitt.: Die Eigenschaften des b-Nor-bilatrien-abc − b-Nor-biladien-ac Systems 1155

Falk H., Flödl H., Wagner U. G., Beiträge zur Chemie der Pyrrolpigmente, 77. Mitt.: Synthese und Struktur von b-Nor-bilatrienen-abc und b-Nor-biladienen-ac, bzw. Bi-9,9′-dipyrrinonylidenen und Bi-9,9′-dipyrrinonylenen 739

Falk H., Medinger W., Müller N. Beiträge zur Chemie der Pyrrolpigmente, 75. Mitt. Phytochrom-Modellstudien: Stereochemische Untersuchungen an einem zwischen den pyrrolischen Ringen A und C peptidartig überbrückten 2,3-Dihydrobilatrien-abc 113

Falk H., Streßler G., Müller N. Kraftfeldrechnungen an linearen Oligopyrrolen: 2,2′-Bipyrrol, 2,2′-Furylpyrrol und Prodigiosen 505

Falk H., Wöss H. Zum Reaktionsverhalten von 1,1,1-Trichlorethanal (Chloral) mit Pyrrolen 1031

Ferenc W. Preparation and properties of yttrium, lanthanum, and lanthanide *m*-nitrobenzoates 1345

Ferenc W., Brzyska W. Preparation and properties of yttrium, lanthanum and lanthanide *p*-nitrobenzoates 407

Fikus M., s. *Szulc Z.*

Filipek S., s. *Wagner E.*

Fisch H., s. *Brunner H.*

Fischer J., Fodor T., Dobay L. On the *Michael* type addition of dipeptides to 4-oxo-4-phenyl-2-butenoic acid derivatives 645

Fitzner K., s. *Pawlik K., Wypartowicz J.*

Flödl H., s. *Falk H.*

Flörsheimer A., Kula M.-R. The application of N^{α}-formyl amino acids in the enzyme-catalyzed peptide synthesis 1323

Fodor T., s. *Fischer J.*

Freitag S., s. *Schroth W.*

Frenzen G., s. *Pfeuffer L.*

Fritsche H.-G., s. *Künne L. D.*

Fu S., Li S., Vogl O. Functional polymers LII. Synthesis and polycondensation of 2(2,4-dihydroxyphenyl)2*H*-1,3-[bis-4-carboxy)2*H*-benzotriazole] 1299

Gäbler M., s. *Kleinpeter E.*

Galle K., Utvary K. Fluordiazadiphosphetidine, 18. Mitt.: Neue zwitterionische Fluordiazadiphosphetidinderivate 53

Galle K., Utvary K. Fluordiazadisphosphetidine, 19. Mitt.: Die Umsetzung von Hexafluor-1,3,2λ^5,4λ^5-diazadiphosphetidin mit silylierten Hydrazinderivaten 165

Galle K., Utvary K. Fluordiazadiphosphetidine, 20. Mitt.: Die Dehydrofluorierung zwitterionischer und die Hydrofluorierung neutraler hydrazinsubstituierter Fluordiazadiphosphetidine 173

Gamsjäger H., s. *Marhold H.*

Geidel E., Böhlig H., Salzer R., Geiseler G. Normalschwingungen substituierter Harnstoffderivate 439

Geiseler G., s. *Geidel E.*

Geist B., Knittel D. Kathodische Reduktion von 2-Azido-2,4-pentadien-1-onen. Elektrolytische Untersuchungen an Vinylaziden, 9. Mitt. 571

Gelléri A., s. *Messmer A., Timári G.*

Gewald K., Gruner M., Hain U., Süptitz G. Zur Ringumwandlung von 2-Amino-thiophen-3-carbonsäureestern: Pyridon- und Pyridazinon-Derivate 985

Ghógáin U. N., s. *Buggle K.*

Girgis M. M., s. *El-Shatoury S. A.*

Golič L., s. *Bradshaw J. S.*

Gomaa E. A. The polarographic electroreduction of uranyl ion in arsenic acid solutions 287

Greber G., s. *Nußbaumer W.*

Greger H., s. *Hofer O.*

Griengl H., s. *Pucher R.*

Gruber H., s. *Nußbaumer W.*

Grubmayr K., Kapl G. Elektrophile Substitution und nucleophile Addition an 3,4-Dihydro-5(1*H*)-pyrromethenonen 605

Grubmayr K., Wagner U. G. Zum Mechanismus der nucleophilen Addition an 2,3-Dihydrodipyrrin-1(10*H*)-one 793

Grubmayr K., Wagner U. G. Zur intramolekularen nucleophilen Addition von 2,3-Dihydropyrrin-1(10*H*)-onen 813

Grubmayr K., Wagner U. G. Zur Chemie der Thioladdition an 2,3-Dihydro-3-ethyliden-dipyrrin-1(10*H*)-one. Eine Modellstudie zur kovalenten Chromophor-Protein-Bindung in Biliproteiden 965

Gründler W. Polycyclische benzenoide Systeme 1125

Gruner M., s. *Gewald K.*

Grzejdziak A., s. *Ignaczak M.*

Gunaherath G. M. K. B., s. *Reisch J.*

Gutmann V., Resch G. Fragen der molekularen Systemorganisation, II. Solvatochrome Komplexe 1251

Gutmann V., s. *Kantner W.*

Haber H., s. *Henning H.-G.*

Hain U., s. *Gewald K.*

Hajós G., s. *Messmer A., Timári G.*

Hase Y. Isotopic product rule for solid state lithium nitrate 425

Haslinger E., s. *Michl G.*

Hassan A., s. *El-Shatoury S. A.*

Hassan A., El-Shatoury S. A., Azab H. A. Polarography of hexavalent molybdenum in hypophosphorous acid solutions 397

Hassler K. Synthese und Kernresonanzspektren von Methylphenyl-substituierten Trisilylphosphanen $PSi_3Me_nPh_{9-n}$ 851

Hassler K. Modellrechnungen zu den Schwingungsspektren von Trisilylphosphanen des Typs $(SiMe_3)_{3-n}P(SiMe_xPh_{3-x})_n$, mit x, $n = 0, 1, 2, 3$ 863

Hassler K. Synthese und Eigenschaften einiger *p*-tolylphenylsubstituierter Di- und Trisilane und von 1,1,1,3,3,3-Hexaphenyltrisilan 1051

Hassler K., Seidl S. Darstellung und Eigenschaften einiger Bis- und Tris(diphenylphosphino)-di-, tri- und tetrasilane 1241

Hatour F., s. *Kolev D.*

Heinisch G., Holzer W., Obala C. Beiträge zur Chemie von Pyrazolylalkinen. 2. Mitt. über Pyrazole 253

Heinisch G., s. *Dostal W.*

Hengge E., s. *Stüger H.*

Henning H.-G., Haber H. Heterocyclensynthesen mit 5-Phenyl-isoxazoliumsalzen, 3. Mitt.: Synthese von Pyrrolo[1,2-a]chinazolin-5-onen 1405

Herden H., Meiler W., Robien W. Zur Adsorption von Olefinmolekülen in Zeolithen 913

Herrmann R., Pombeiro A. J. L., Activation of alkynes by the dinitrogen complex $[CoH(N_2)(PPh_3)_3]$ towards catalytic oligomerization and cyclization reactions 583

Hildebrandt R., s. *Nitzsche R.*

Hofer O., Wagner U. G., Greger H. X-Ray structural anaylsis of tetrahydrofurofuran lignans 1143

Hoffmann H., s. *Mayer U.*

Holzer W., s. *Heinisch G.*

Hondrellis V., Kabanos T., Perlepes S. P., Tsangaris J. M. Metal complexes of the diuretic drug furosemide 1091

Hönig H., s. *Danklmaier J.*

Husu B., Kafka S., Kadunc Z., Tišler M. Amination of naphthoquinones with azidotrimethylsilane 215

Idriss K. A., s. *Seleim M. M.*

Ignaczak M., Grzejdziak A. Complexing equilibria and redox potentials in the system Ag(II)/Ag(I) – 1,10-phenanthroline in propylene carbonate 71

Jablónski M., s. *Jedrzejak A.*

Janáky J., s. *Czollner L.*

Jaroniec M., Lux X., Madey R. Gas adsorption on solids with *Gaussian* micropore-seize distributions 889

Jaroniec M., s. *Choma J.*

Jedrzejak A., Jabloński M. Prediction of adsorption of organic component and vapour mixture onto activated carbon 187

Jeitschko W., s. *Block G.*

Jordis U. Zum Mechanismus der Reduktion von 1,3-Benzodithiol-2-thionen 1179

Jordis U., Sauter F., Rudolf M., Cai G. Synthesen neuer Chinolon-Chemotherapeutika, 1. Mitt.: Pyridochinoline und Pyridophenanthroline als „*lin*-benzo-Nalidixinsäure"-Derivate 761

Junek H., Klade M., Sterk H., Fabian W. Dicyanmethylenpyrazolinone und deren Bedeutung als Chromophor. Synthesen mit Nitrilen, 80. Mitt. 993

Junek H., Klade M., Sterk H., Fabian W. Erratum zu: Dicyanmethylenpyrazolinone und deren Bedeutung als Chromophor 1445

Junek H., Sarhan E. T., Sterk H. 2-Amino-1-cyan-glutaconsäure-1-methylester, ein Dimeres des Cyanessigesters und Cyanamid. Synthesen mit Nitrilen, 79. Mitt. 717

Kabanos T., s. *Hondrellis V.*

Kaduncz., s. *Husu B.*

Kafka S., s. *Husu B.*

Kalchhauser H., Krishnamurty H. G., Talukdar A. C., Schmid W. Isolation and structure determination of two new macrocyclic biaryl ethers from *Garuga gamblei* 1047

Kalinowski M. K., s. *Wagner E.*

Kantner W., Gutmann V., Linert W. Mechano-elektrochemische Effekte, IV. Potentialverschiebungen an Kupfer in nichtwäßrigen Lösungen während und nach der plastischen Deformation 649

Kantner W., Gutmann V., Linert W. Mechano-elektrochemische Effekte, V. Potentialverschiebungen bei plastischer Deformation von Silber 661

Kapl G., s. *Grubmayr K.*

Kappe T., Wildpanner H. Nichtsteroide Entzündungshemmer, 4. Umlagerungen von Heterocyclen, 11. Ketenoide Umlagerung und Oxidation von 2-Pyronen zu 1,4-Naphthochinon-5-alkansäuren 727

Kappe T., s. *Lapachev V. V.*

Karljikovic-Rajić K. D., s. *Milovanović L. T.*

Kellner R., s. *Mayer U.*

Klade M., s. *Junek H.*

Klapötke T. Methylbis(thiomethanolato)bismut(III). Synthese, Charakterisierung und mikrobiologische Aktivität 1317

Kleinpeter E., Gäbler M., Schroth W. Intramolecular felxibility of heteroanalogous benzo- and dibenzo-1,5-cyclooctadienes 233

Kleinpeter E., s. *Meusinger R.*

Knittel D. Kathodische Reduktion von Säureaziden. Elektrolytische Untersuchungen an Vinylaziden, 8. Mitt. 379

Knittel D., Rao V. S. Cathodic synthesis of 2-amino-2-propene-1-ones. Electrolytical studies on vinyl azides, VII. 223

Knittel D., s. *Geist B.*

Kočevar M., Stanovnik B., Tišler M. The *Semmler-Wolff* aromatization and *Schmidt* reaction applied to some pyrido[2′,3′:3,4]pyrazolo[5,1-c][1,2,4]-benzotriazines 597

Kolev D., Hatour F. Die Multikomponenten-Formen von Cellulase (E.C.3.2.1.4) aus *Aspergillus oryzae* 1397

Kollenz G., s. *Terpetschnig E.*

Koren B., Stanovnik B., Tišler M. Transformations of 1-azinyl-4-ethoxycarbonyl thiosemicarbazides. The synthesis of 3-ethoxycarbonylamino-s-triazolo[4,3-x]azines 83

Koren B., Stanovnik B., Tišler M. Transformations of 1-(2-chloropyridyl-3)-4-ethoxycarbonyl- and 1-(2-chloropyridyl-3)-4-ethoxycarbonylmethyl thiosemicarbazides. Attempts to prepare pyrido[3,2-e]-1,2,4-thiadiazine 333

Kores M., s. *Schmidt H.-W.*

Kratky C., s. *Mautner F. A.*

Kraus J., s. *Brunner H.*

Krischner H., s. *Mautner F. A.*

Krishnamurty H. G., s. *Kalchhauser H.*

Kula M.-R., s. *Flörsheimer A.*

Kumar A. An alternate method to estimate the *Pitzer* coefficients of apparent molal expansibility of aqueous electrolytes 699

Kumar A. Mixtures of l-l electrolytes: Densities and excess volumes of aqueous NaCl-NaBr at 25 °C 1201

Kumar V., s. *Reisch J.*

Künne L. D., Fritsche H.-G. Quantenchemische Untersuchungen zur Struktur und Bindung von Zr_6 in Zirkonium-Clusterverbindungen 1365

Kurzer F., Mitchell J. B. O., Patel J. N. Diisophorone and related compounds, XIX. Synthesis and reactions of 6,8-dibromodiisophorones 195

Kuźnik B., Czakis-Sulikowska D. M. Solvent extraction of lanthanide ions with 1-phenyl-3-methyl-4-benzoyl-pyrazolone-5 (*HPMBP*), I. Extraction of Erbium(III), Ytterbium(III) by *HPMBP* from aqueous solutions 389

Labouta I. M., Eshba N. H., Salama M. Synthesis of some substituted triazolo[4,3-b][1,2,4]-triazines as potential anticancer agents 591

Langó J., s. *Czollner L.*

Lapachev V. V., Stadlbauer W., Kappe T. 4-Aminouracils and pyrimido[4,5-b]indolediones from 4-azidouracils 97

Lautenschlager H.-J. s. *Brunner H.*

Leib W., Müller-Buschbaum Hk. Synthese und Kristallstruktur von $Sr_3Ga_2O_5Cl_2$ und $Sr_3Fe_{1.18}Al_{0.82}O_5Cl_2$ 157

Lévai A., s. *Puzicha G.*

Li S., s. *Fu S.*

Linert W., s. *Kantner W.*

Lis S., s. *Marciniak B.*

Loos D., s. *Perjéssy A.*

Lötsch G., s. *Dostal W.*

Lu X., s. *Jaroniec M.*

Lukovits I., s. *Reiter J.*

MacManus P., s. *Buggle K.*

Madey R., s. *Jaroniec M.*

Majdan M. The influence of the different salting out agents on the extraction of Ce, Eu, Gd, Tb using tri-*n*-butyl phosphate 693

Majdan M. Some remarks on the periodical change of the stability constants of lanthanide complexes 1079

Majdan M., Sadowski P. The influence of the temperature on the formation of samarium nitrato complexes 143

Majdan M., Sadowski P. Study of Nd-nitrato complexes in aqueous-methanol solutions 295

Majdan M., Sadowski P. Nitrate ion association with La^{3+}, Gd^{3+}, and Dy^{3+} 1341

Malinowska A., s. *Czakis-Sulikowska D. M.*

Mantaka-Marketou A. E., s. *Varveri F. S.*

Marciniak B., Elbanowski M., Lis S. Quenching the excited state of benzophenone by lanthanide 1,3-diketonate chelates in solution 669

Marhold H., Sagmüller W., Gamsjäger H. The volume change for the dissociation of telluric acid 1369

Markov P., Novkirishka M. On the photochemical behaviour of 1-methyl-4-ethoxycarbonylpyridinium iodide 1185

Martin-Gil F. J., s. *Beurkens P. T.*

Massa W., s. *Pfeuffer L.*

Mautner F. A., Krischner H., Kratky C. Die Kristallstruktur eines polynuklearen Co(II)-Komplexes in $Cs_2[CO_3(N_3)_6]$ 509

Mautner F. A., Krischner H., Kratky C. Die Kristallstruktur des Calciumazid-Dihydrates 921

Mautner F. A., Krischner H., Kratky C. Tetramethyl ammonium calcium triazid, Darstellung und Kristallstruktur 1245

Mayer U., Hoffmann H., Kellner R. IR-Spectroscopic investigation of solute-solvent interactions. Part 1: Solvation of triethylphosphine oxide in aprotic and CH-acidic solvents 1207

Mayer U., Hoffmann H., Kellner R. IR-Spectroscopic investigation of solute-solvent interactions. Part 2: Solvation of triethylphosphine oxide in hydroxylic solvents 1223

Mazurkiewicz R. Novel synthesis and rearrangement of 3,1,5-benzoxadiazepines 1279

Medinger W., s. *Falk H.*

Meller W., s. *Herden H.*

Mendoza J. d., Torres T., Badia M. D. On the lead tetraacetate oxidation of 4-amino-1,2,4-triazoles, 1-amino- and 2-amino-1,2,3-triazoles 1041

Messmer A., Hajós G., Timári G. Cycloadditions with hetaryl dieneamines. A direct route to hetarylazulenes 1113

Messmer A., Hajós G., Timári G., Gelléri A. Novel reactions with hetaryldieneamines as activated olefines 1121

Messmer A., s. *Timári G.*

Meusinger R., Duschek C., Kleinpeter E., Borsdorf R. Zur Stereoisomerie der 2,6-Dichlor-4-methoxyheptane 1019

Meusinger R., Weber L., Duscheck C., Borsdorf R., Kleinpeter E. Zuordnung offenkettiger Diastereomerer mittels Lanthanideninduzierter Verschiebungen (LIS) 1011

Michl G., Rettenbacher C., Haslinger E. Synthesis of 12-methoxyabietic acid methylester, a feeding deterrent of the larch sawfly *Pristiphora erichsonii* (Hartig) 833

Milovanović L. T., Karljikovic-Rajić K. D., Stanković B. S. Spectrophotometric and potentiometric determination of acidic constants of oxo-phenyl pyridinium monoxime and dioxime 1069

Miró J., s. *Doménech J.*

Mitchell J. B. O., s. *Kurzer F.*

Mitzner R., s. *Nitzsche R.*

Mlochowski J., s. *Szulc Z.*

Morley J. O. Theoretical and molecular modelling studies on organic transition metal complexes, II. Calculation of the stability constants of bidentate ligands in relation to the *Irving-Williams* order 1263

Müller M., s. *Reisch J.*

Müller N., s. *Falk H.*

Müller-Buschbaum Hk., s. *Leib W.*

Nachbaur E., s. *Faleschini G.*

Neubauer G., s. *Bartsch H.*

Neudeck H. K. Aromatische Spirane, 15. Mitt.: Darstellung von 2,2′-Spirobi-(*s*-hydrindacen)-1,1′-dion und von 4,4′-disubstituierten 2,2′-Spirobi-(*s*-hydrindacenen) 625

Nikokavouras J., s. *Varveri F. S.*

Nitzsche R., Hildebrandt R., Mitzner R., Röbisch G. Gleichgewichte und Kinetik zur 1:1 Komplexbildung von Aluminium(III) mit Kojisäure in wäßriger Lösung 495

Novkirishka M., s. *Markov P.*

Nußbaumer W., Gruber H., Greber G. Wasserphotolyse mit Hilfe von funktionellen Tris-(2,2'-bipyridin)ruthenium(II)-Komplexen 1

Obala C., s. *Heinisch G.*

Osborne A. G., C13 Magnetic resonance spectral studies of some bipyridine derivatives 1385

Ott W., s. *Terpetschnig E.*

Palus J., s. *Szulc Z.*

Paryzek Z., Blaszczyk K. Steroidal Cyclobutanones 845

Patel J. N., s. *Kurzer F.*

Pawlik K., Fitzner K. Prediction of the minimum solubility during ether deoxidation or desulfurization process in liquid alloys 17

Perales P. T., s. *Beurkens P. T.*

Perjéssy A., Tuu T. T., Loos D., Sutoris V. Infrared spectra and theoretical study of *E*-3-(2*R*-vinyl)-2-benzothiazolinones 477

Perlepes S. P., s. *Hondrellis V.*

Pertlik F. The compounds KAs_4O_6X (X = Cl, Br, I) and $NH_4As_4O_6X$ (X = Br, I): Hydrothermal synthesis and structure determinations 451

Pertlik F., Zemann J. Die Kristallstruktur von $Cu_7(OH)_6(TeO_3)_2(SO_4)_2$ 311

Peters E.-M., s. *Terpetschnig E.*

Peters K., s. *Terpetschnig E.*

Pfeuffer L., Pindur U., Sattler H.-J., Massa W., Frenzen G. Zur Struktur der Produkte der Reaktion von *E*/*Z*-1-Benzolsulfonyl-3-(1-pentenyl)-indol mit N-Phenylmaleinimid: Ein erster Beitrag zur Konfigurations- und Konformationsanalyse in der Vinylindol-Cycloadditionsreihe 1289

Pindur U., s. *Pfeuffer L.*

Pohl S., s. *Weidenbruch M.*

Pombeiro A. J. L., s. *Herrmann R.*

Pongó L., s. *Reiter J.*

Pranka E., s. *Beyer A.*

Pucher R., Griengl H. Substituierte 5-Hydroxypyrimidine und ihre O,O-Diethylphosphorsäure-, O,O-Diethylthiophosphorsäure- und N,N-Dimethylcarbamidsäureester 953

Pucher R., Griengl H. N-Arylsulfonyl-N'-pyrimidinylsubstituierte Chloralaminale 1415

Pustelnik N., s. *Czakis-Sulikowska D. M.*

Puzicha G., Lévai A., Szilágyi L. Oxazepines and thiazepines, XIX. Synthesis of optically active 2,3-dihydro-1,5-benzothiazepin-4(5*H*)-ones 933

Rao V. S., s. *Knittel D.*

Ratkovics F., s. *Domonkos L.*

Reisch J., Gunaherath G. M. K. B. Natural product chemistry. Part 116: Synthesis of daurine and folidine. Two 2(1*H*)-quinolinone alkaloids from *Haplophyllum* species 1169

Reisch J., Salehi-Artimani R. A., Bathe A., Müller M. Acetylenchemie, 7. Mitt.: Mechanistische Studien zur Synthese von Pyrano[3,2-c]chinolin-Alkaloiden aus 4-Hydroxychinolin-2-onen und 3-Chlor-3-methylbut-1-in 781

Reisch J., Wickramasinghe A., Kumar V. Natural product chemistry, Part 121. Synthesis of dicoumarinylethers with the structure proposed for fatagarine and oreojasmine 1333

Reiter J., Pongó L., Lukovits I. On triazoles, IX. HMO calculations of tautomeric 1,2,4-triazole derivatives 341

Resch G., s. *Gutmann V.*

Rettenbacher C., s. *Michl G.*

Richter M., s. *Schroth W.*

Robien W., s. *Herden H.*

Röbisch G., s. *Nitzsche R.*

Rudolf M., s. *Jordis U.*

Rzaczyńska Z., s. *Brzyska W.*

Saak W., s. *Weidenbruch M.*

Sadowski P., s. *Majdan M.*

Sagmüller W., s. *Marhold H.*

Salama M., s. *Labouta I. M.*

Saleh M. S., s. *Seleim M. M.*

Salehi-Artemani R. A., s. *Reisch J.*

Salzer R., s. *Geidel E.*

Sarhan E. T., s. *Junek H.*

Sattler H.-J., s. *Pfeuffer L.*

Sauter F., Stanetty P., Sittenthaler W., Waditschatka R. Fungizide Pyridinderivate I. α-Trichlormethyl-3-pyridinmethanole 1427

Sauter F., s. *Jordis U.*

Schermanz K., s. *Wendelin W.*

Schmid W., s. *Kalchhauser H.*

Schmidt H.-W., Kores M. Synthese von 1,1′-Biphenyl-3-carbonsäure- und 3,5-dicarbonsäurederivaten unter Verwendung von Ethoxymethylenmalononitril 91

Schneider C., s. *Baldus P.*

Schnering H. G. v., s. *Terpetschnig E.*

Schreiner E. P., s. *Zbiral E.*

Schroth W., Richter M., Dobner B., Spitzner R., Freitag S. Synthese und Reaktionsverhalten von 6-*sec*-Amino-1,3-thiazin-2-thionen 463

Schroth W., s. *Kleinpeter E.*

Sedaira H., s. *Seleim M. M.*

Seidl S., s. *Hassler K.*

Seleim M. M., Idriss K. A., El-Shahawi A. S., Saleh M. S., Sedaira H. Effect of the varying π-accepting properties of some *ortho*-substituted benzoic acids on the stability of mixed-ligand complexes containing quinizarin and thorium(IV) 683

Seleim M. M., Idriss K. A., Saleh M. S., Sedaira H. On the discriminating and stability increasing properties of alizarin maroon in mixed-ligand complexes of yttrium(III) 533

Sharma V., s. *Chadha S. L.*

Sittenthaler W., s. *Sauter F.*

Spitzner R., s. *Schroth W.*

Stadlbauer W., s. *Lapachev V. V.*

Stanetty P., s. *Sauter F.*

Stanković B. S., s. *Milovanović L. T.*

Stanovnik B., s. *Kocevar M., Koren B.*

Sterk H., s. *Junek H.*

Stipa P., s. *Tosi G.*

Streßler G., s. *Falk H.*

Stüger H., Hengge E. UV/Vis-spektroskopische Untersuchungen an Cyclosilanderivaten 873

Süptitz G., s. *Gewald K.*

Sutoris V., s. *Perjéssy A.*

Szilágyi G., s. *Czollner L., Puzicha G.*

Szulc Z., Fikus M., Mlochowski J., Palus J. (N,N-Diethylamino)alkoxy derivatives of phenanthrolines as *DNA* binding agents 263

Talukdar A. C., s. *Kalchhauser H.*

Terpetschnig E., Ott W., Kollenz G., Peters K., Peters E.-M., Schnering H. G. v. Reaktionen mit cyclischen Oxalylverbindungen, 26. Mitt.: Cyclokondensation von 4,5-substituierten Thiophen- bzw. N-Alkylpyrrol-2,3-dionen mit *o*-Phenylendiamin 367

Thom K.-L., s. *Weidenbruch M.*

Timári G., Hajós G., Messmer A., Gelléri A. Synthesis of aryl- and hetarylpyrazoles 1037

Timári G., s. *Messmer A.*

Tišler M., s. *Bradshaw J. S., Husu B., Kočevar M., Koren B.*

Torres T., s. *Mendoza J. d.*

Tosl G., Stipa P., Bocelli G. 2,2'-Diphenyl-$\Delta^{3,3'}$-bi-3*H*-indole-1,1'-dioxide: Molecular interactions and crystal structure 487

Tosi G., s. *Bruni P.*

Tsangaris J. M., s. *Hondrellis V.*

Tuu T. T., s. *Perjéssy A.*

Utvary K., s. *Galle K.*

Varveri F. S., Mantaka-Marketou A. E., Vassilopoulos G., Nikokavouras J. Chemiluminescence in model membrane structures. Chemiluminescence of lucigenin in the presence of $Mg(OH)_2$ and benzyl alcohol. Temperature effects 703

Vassilopoulos G., s. *Varveri F. S.*

Vogl O., s. *Fu S.*

Waditschatka R., s. *Sauter F.*

Wagner E., Filipek S., Kalinowski M. K. Visible absorption spectra of the phenothiazine radical cation and its 10-substituted derivatives 929

Wagner U. G., s. *Falk H., Grubmayr K., Hofer O.*

Weber L., s. *Meusinger R.*

Weidenbruch M., Thom K.-L., Pohl S., Saak W. Siliciumverbindungen mit starken intramolekularen sterischen Wechselwirkungen, XXIX. Octacyclohexylcyclotetrasilan 65

Wendelin W., Schermanz K., Breitmaier E. Spezielle Reaktionen von α,β-ungesättigten Ketonen, 1. Mitt.: Über die Dimerisierung von 2-Benzyliden-1-indanon in Gegenwart starker Basen 355

Wickramasinghe A., s. *Reisch J.*

Wildpanner H., s. *Kappe T.*

Wittmann H., Ziegler E. Über Reaktionen mit Betainen, 23. Mitt.: Über Umsetzungen von N- und S-Betainen mit reaktiven Halogenverbindungen 103

Wolschann P., s. *Beyer A.*

Wöss H., s. *Falk H.*

Wypartowicz J., Fitzner K. Determination of oxygen activity in gallium-antimony liquid solutions 301

Zabdyr L. A. Thermodynamics and phase diagram of the gallium-sodium system 31

Zbiral E., Schreiner E. P., Brandstetter H. Strukturelle Abwandlungen an N-Acetylneuraminsäuren, 8. Mitt.: Synthese von 7-, 8-, 9-Desoxy- und 4,7-Didesoxyneuraminsäure 127

Zemann J., s. *Pertlik F.*

Ziegler E., s. *Wittmann H.*

Sachverzeichnis/Subject Index

Acceptor number 1207, 1223
2-Acetoxy-3-amino-2,4-dienes 223
Acetylacetonate, rare earth complexes 669
N-Acetylneuraminic acid, desoxy- and didesoxy 127
Acid azides 379
Acidic constants 1069
Activated carbon 187
1-Acyloxy-1-diacetyl-aminomethanes 379
Adducts with O- and N-donors 553
Adsorption isotherm 187
Adsorption, on microporous solids 545
—, on solids 889
(*S*)-Alanyl-(*S*)-proline 645
Alizarin maroon, complexes 533
Alkaloids 1169
Alkylation 781
Alkynes, activation of 583
Alloys, gallium 31
—, liquid 17
Aluminium(III), complexes 495
Am1 711
Amide bands, IR 439
Amination, direct introduction 215
Amino-1,2,3-triazoles, 1- and 2- 1041
5-Amino-1,2,4-triazoles 341
4-Amino-1,2,4-triazoles 1041
2-Amino-2,4-pentadien-1-ones 571
1-Amino-2-pyridone 985
o-Aminobenzoic acid, complexes 147
Aminoether 263
Aminonaphthoquinones 215
2-Aminothiophene-3-carbocylic acid derivatives 985
4-Aminourazil 97
Amperometric determination, trivalent arsenic 1357
Anthranilic acid, complexes 147
Antidotes 1069
Antiinflammatory agents 727
Antiinflammatory effect 349
Antimony-gallium liquid solution 301
Antineoplastic 591
Apparent molal expansibility 699
Apparent molal volumes 699, 1201
Aqueous NaCl—NaBr 1201
Aqueous and nonaqueous electrolytes 661
Aromatization 597
Aromatization, diisophorones 195
1-Aroyl-4,4-dialkylsemicarbazides 1027
Arsenates, X-ray 1103
Arsenic acid 287
Arsenic phosphorus chalcogenides, constitution isomers 515
Arsenic, trivalent, amperometric determination 1357
Arsenium compounds, X-ray 451
5-Aryl-1,3,4-oxadiazol-2(3*H*)-ones 1027
Aspergillus oryzae, 1397
Association 177
Asymmetric catalysis 525
Aza 53, 165, 173
Azapurine analogues 591
Azide, X-ray 509, 921, 1245
2-Azido-2,4-pentadien-1-ones 571
4-Azidourazil 97
1-Azinyl-4-ethoxycarbonyl thiosemicarbazides 83
Azulene synthesis 1113

Benzenesulfonylpentenylindole-phenylmaleimide adduct, X-ray 1289
Benzenoid hydrocarbons 41
Benzenoid systems 1125
1,3-Benzodithiole-2-thione 1179
Benzothiazepin-4(5*H*)-ones, 2,3-dihydro-1,5- 933
Benzothiazepines, optically active 933
Benzothiazolinones, *E*-3-(2-*R*-vinyl)-2- 477
2*H*-[1]Benzothieno[2,3-b]pyran-2-ones 945
Benzotriazoles, 2(2-hydroxyphenyl)2*H*- 1299

3,1,5-Benzoxadiazepines 1279
3-Benzoyl-2-phenylthieno[2,3-b]quinoxaline 367
1-Benzoyl-4-ethinylpyrazoles 253
Benzoylacetamides, N-aroyl-N-methyl- 1405
2-Benzylidene-1-indanone, dimerization of 355
Betaines 103
Biliproteins 965
Binary mixing term 1201
Biological activity 1317
1,1′-Biphenyl-3-carboxylate 91
Bipyridines 1385
2,2′-Bipyrroles 247, 505
Bismuth(III), methylbis(thiomethanolato)- 1317
Bulk membranes 1155
Burseraceae 1047

Calcium, triazide, X-ray 1245
Calciumazide, X-ray 921
Carbamates, N,N-dimethyl-O-pyrimidin-5-yl 953
Carbides, interstitial 319
—, uranium-rhenium, X-ray 319
Carbonyl ketenes, as intermediates 727
Catalytic activity 1057
Catalytic cyclization, alkynes 583
Catalytic oligomerization, alkynes 583
Cathodic reduction 105, 379, 571
Cellulase 1397
Cesium, Co azide, X-ray 509
Charge transfer complexes 487
Chelates 1155
Chelates, molecular modelling 1263
Chemical bond, Zr_6 cluster compounds 1365
Chemiluminescence 703
Chiroptical properties 113, 1143, 1161, 1323
Chloral aminals, N-arylsulfonyl-N′-pyrimidinyl 1415
Chromium(III), 2,2,2-trichloroethoxy derivatives 553
Chromophoric properties 993, 1445
Chronovoltammetry 71
Circular dichroism 1143
Circumkekulene 563
Closest approach distance 1341
Cluster compounds 1365
Cndo 913
Cndo/2 477
Cobalt, Cs azide, X-ray 509
Colour indicators, for donor and acceptor properties 1251
Complexes 1, 71, 143, 147, 295, 389, 407, 487, 495, 509, 533, 583, 669, 677, 683, 903, 1079, 1091, 1189, 1263, 1317, 1341, 1345
Condensation, chloral with pyrroles 1031
Condensation polymers 1299
Condensed hydrocarbons 1125
Conformational analysis 233, 477, 711, 739, 793, 813, 1011, 1019, 1143, 1289
Conformational calculations 711
Constitution isomers, phosphorus arsenic chalcogenides 515
Copper arsenate, X-ray 1103
Copper, mechano-electrochemical effects 649
Copper-hydroxy-tellurite-sulfate, X-ray 311
Coulometric titration 301
Cross-coupling reactions, palladium-assisted 253
Crystal structure, Adducts of 2,3-dihydropyrrin-1(10*H*)-ones 793, 813
—, B-nor-biladienes-ac 739
—, B-nor-bilatrienes-abc 739
—, Benzenesulfonylpentenylindole-N-phenyl-maleinimide adduct 1289
—, Calciumazide dihydrate 921
—, $Cs_2[Co_3(N_3)_8]$ 509
—, $Cu_3(AsO_4)_2$-III 1103
—, $Cu_7(OH)_6(TeO_3)_2(SO_4)_2$ 311
—, Dipyrrinones 965
—, Furo[2,3-b]quinoxaline 367
—, KAs_4O_6X (X = Cl,Br,I) 451
—, $KCu_4(AsO_4)_3$ 1103
—, $NH_4As_4O_6X$ (X = Br,I) 451
—, $Na_4Cu(AsO_4)_2$ 1103
—, $Pd(Creat)_2Cl_2 \cdot 2H_2O$ (*trans*) 1189
—, $Pt(Creat)_2I_2 \cdot 3H_2O$ (*cis*) 1189
—, Pyrrolidino[2,3-b]-1,5-bezodiazepine 367
—, $Sr_3Fe_{1.18}Al_{0.82}O_5Cl_2$ 157
—, $Sr_3Ga_2O_5Cl_2$ 157
—, Tetrahydrofurofuran lignans 1143
—, Tetramethylammonium calcium triazide 1245
—, Thieno[2,3-b]quinoxaline 367
—, $U_5Re_3C_8$ 319

Cupferron 903
Cyanoacetamide 717
Cyanoacetate 717
Cyclic, non carbon 53, 165, 173
Cyclization, oxidative with C—N bond formation 83
Cyclization 349, 625
Cyclization reaction (C—C) 327
Cycloaddition 1113, 1121
Cycloaddition, dichloroketene and methylene steroids 845
—, to pyrazoles 1037
Cycloadducts 1289
Cyclobutanones 845
Cyclodehydrogenation 97
1,5-Cyclooctadiene derivatives, mono- and dibenzo 233
Cyclopolysilanes 873
Cyclotetrasilane 65

Daurine 1169
Demethylation 1311
Densities 1201
Deoxidation 17
Deoxygenation, of sialic acids 127
Desulfurization 17
N,N-Diacylamides 379
Diaza-dihydroxydibenzocycloheptenones 751
6,8-Dibromodiisophorones 195
1,3-Dicarbonyl compounds 1161
2,6-Dichloro-4-methoxy-heptanes 1019
Dicoumarinyl ethers 1333
Dicyanomethylene-pyrazolinones 993, 1445
2,2-Dideutero-1,3-benzodithiole 1179
Diels Alder reaction, inverse electron demand 1121
Dieneamine 1037, 1113, 1121
O,O-Diethylphosphoric acid esters 953
O,O-Diethylphosphorothioic acid esters 953
2,3-Dihydro-1,5-benzothiazepin-4(5*H*)-ones 933
1,2-Dihydro-2-oxo-pyridine-5-thioles 985
2,3-Dihydro-3-ethylidenedipyrrin-1(10*H*)-ones 965
3,4-Dihydro-5(1*H*)-pyrromethenones 605
Dihydrobilatrienes-abc 113, 605
2,3-Dihydropyrrin-1(10*H*)-ones 793, 813
Diisophorones 195
Dimerization, of 2-benzyliden-1-indanone 355
Dinitrogen complex 583
Dipeptides 645
1,5-Diphenyl-3-trifluoromethyl-1*H*-1,2,4-triazoles 349
2,2′-Diphenyl-bi-3*H*-indole-1,1′-dioxide 487, 1311
Diphenylphosphinosilanes 1241
1,5-Diphenyltriazole 349
Dissociation, telluric acid 1369
Dna binding agents 263
Double-double effect 1079
Dynamic NMR 233

Electrical conductivities, halide salts 277
Electrochemistry 71, 223, 277, 287, 379, 397, 429, 571, 649, 661, 1069, 1357
Electrolytes, aqueous 699
—, aqueous mixed- 1201
—, nonaqueous and aqueous 649, 661
Electron structures, significant- 1125
Electron transport 1155
Electrophilic substitution 605, 1439
Electrophoresis of cellulase 1397
Electroreduction, uranyl ion 287
Enamines 1161
Enaminoketones 223
Enantioselective hydrosilylation 525
Enantioselective synthesis 839
Enazidoketones 223
Enthalpy change, complex formation 143
Entropy change, complex formation 143
Enzyme catalyzed peptide synthesis 1323
Erbium(III), extraction 389
Ether, macrocyclic biaryl- 1047
4-Ethinylpyrazoles 253
3-Ethoxycarbonylamino-*s*-triazolo[4,3-*x*]azines 83
Ethyl glycolate 103
Excess volumes of mixing 1201
Extraction enthalpy 693
Extraction, of Yb(II) and Lu(III) 903
—, of lanthanide ions 389
Fatagarine 1333
Flexible diastereomers 1011

Fluorescence 761
Fluoride ions 1357
Folidine 1169
Force field calculations 505
Formamide, aqueous 277
Formyl protecting group 1323
Fungicides 1427
Furofuran lignans, X-ray 1143
Furosemide 1091
2,2′-Furylpyrrole 505

Gallium 157
Gallium alloys 31
Gallium-antimony liquid solution 301
Garuga gamblei 1047
Garugamblin 1047
Gas adsorption 545
General acid base catalysis 495

Halide salts, electrical conductivities 277
α-Haloesters 839
Haplophyllum 1169
Heavy lanthanides, complexes 147
Hetarylazulenes 1113
Heterogenous adsorbents 889
Heteropoly compounds 1057
Hexafluorodiazadiphosphetidine 165
1,1,1,3,3,3-Hexaphenyltrisilanes 1051
Hierarchic levels in molecules 1251
Homolytic alkoxycarbonylation 751
Hydrazine 53, 165, 173
Hydrazones, *p*-(tricyanovinylidene)phenyl- 1375
s-Hydrindacen-1-one derivatives 625
Hydrolysis 91
Hydrolysis constant 1369
Hydrothermal synthesis 311, 451, 1103
Hydroxy-1,4-naphthoquinone alkanoic acids 727
4-Hydroxyquinoline-2-ones 781
Hypophosphorous acid 397

Imidine bands, IR 439
Indo/S-CI 993, 1445
Infrared 177, 425, 439, 477, 863, 1207, 1223
Inner sphere complexes 1341
Intercalation of DNA 263
Interstitial carbides 319
Ion interaction model 699
Ionic 173
Ionic conductance 277
Ionic radius 1079
Ionization potential 1079
Iron 157
Irving-Williams order 1263
Isotopic product rule 425
Isoxazolium salts, 5-phenyl-, synthesis with 1405

Kekulé structures, enumeration of 41, 563
Keto-enol tautomerism 177
Ketones, α,β-unsaturated, reactions 355
—, prochiral 525
Kinetics of substitution reactions 1375
Knorr reaction 1405
Kojic acid, complexes 495

Lanthanide complexes 677, 1079
Lanthanide induced shifts 1011
Lanthanide ions, nitrate ion association 1341
Lanthanide nitrates 693
Lanthanides, *m*-nitrobezoate complexes 1345
Lanthanoids 407
Lead tetraacetate 1041
Ligand field spectra 1091
Ligand substitution 495
Lignans, tetrahydrofurofuran-, X-ray 1143
Lin-benzo analogues 761
Liquid metallic alloys 17
Liquid metals 301
Lithium ion—azide complexes 379
Lithium nitrate, solid state vibrations 425
Lithium-6/-7, isotopic effect 425
Lucigenin 703
Lutetium(III), extraction 389
(*S*)-Lysyl-(*S*)-proline 645

Macrocyclic biaryl ether 1047
Magnetic moments 1091
Mechano-electrochemical effects, on copper 649
—, on silver 661
Membranes 703
Mercury transport 1155
Metal-sulfadrug interactions 1091
Methoxy-oxydicoumarins 1333
12-Methoxyabietic acid methyl ester 833

Methyl 3-amino-4-carbomyl-2-cyano-2-butenoate 717
Methyl cyanoacetate, dimer of 717
(*R*)-2-Methyl-3-oxo-perhydro-1,4-oxazine 839
1-Methyl-4-ethoxycarbonylpyridinium iodide 1185
Methylbis(thiomethanolato)bismuth-(III) 1317
Methylphenyltrisilylphosphanes 851, 863
Michael addition 1161
Michael type addition 645
Micropore distribution 545, 889
Microporous solids, adsorption 545
Mndo 929
Molar volume 1369
Molecular associations 487
Molecular mechanics 711
Molecular modelling 1263
Molecular system organization 1251
Molybdenum, hexavalent, polarography 397
Molybdosphoric acid 1057
Monohydrosilanes 525
Morpholines 839
Multicomponent adsorption 187
Multiple forms, cellulase 1397

Naphthalenes, substituted 327
1,4-Naphthoquinone alkanoic acids 727
Neodymium nitrato complexes 295
Nitrate ion association 1341
N-Nitrenes 1041
p-Nitrobenzoates, of rare earth elements 407
m-Nitrobezoate complexes, rare earth elements 1345
Nitrogen-phosphorus heterocyclic 53, 165, 173
Nmr, C13 367, 457, 833, 913, 993, 1019, 1385
—, N15 993, 1445
—, P31 851
—, Si29 457, 851, 1051
—, Two dimensional 113, 355, 833
Nonaqueous and aqueous electrolytes 661
Nonaqueous electrolytes 649
b-Nor-biladiene-ac—b-nor-bilatriene-abc system 1155
b-Nor-biladienes-ac, X-ray 739
b-Nor-bilatriene-abc—b-nor-biladiene-ac system 1155
b-Nor-bilatriene-abc, X-ray 739
Normal coordinate analysis 439
Nucleophilic addition 605, 793, 813, 965
Nucleophilic substitution 1375

Olefines, adsorption of 913
Oligopyrroles 505
Oligosilanes 65
Optical induction 1161
Optical purity 933, 1323
Oreojasmine 1333
Outer sphere complexes 1341
1,3,4-Oxadiazolones 1027
Oxazine, (*R*)-2-methyl-3-oxo-perhydro-1,4- 839
1,4-Oxazines 1439
Oxidative coupling 247
Oxidative cyclisation, with C—N bond formation 83
4-Oxo-4-phenyl-2-butenoic acids 645
Oxohalogeno 157
Oxolane ring, envelope 1143
Oxygen activity 301

Palladium, -$(Creat)_2Cl_2 \cdot 2H_2O$ (*trans*), X-ray 1189
Palladium-assisted cross-coupling reactions 253
Pcilo 477
Peptide synthesis, enzyme catalyzed 1323
Peptidic linkage 113
Phase diagram, Ga—Na 31
Phase-transfer catalysis 781
Phenacyl alcohol 103
Phenanthrolines, DNA binding agents 263
Phenolphthalein, voltammetric reduction 429
Phenothiazine radical cation 929
1-Phenyl-3-methyl-4-benzoyl-5-pyrazolone (*HPMBP*) 389
(2-Phenylethyl)pyridazines 751
Phospha 53, 165, 173
Phosphanes, methylphenyltrisilyl- 851, 863
4-Phosphoranylideneaminourazil 97
Phosphorescence, of benzophenone 669

Phosphorus—nitrogen heterocyclic 53, 165, 173
Phosphorus arsenic chalcogenides, constitution isomers 515
Photochemistry, reversible 1185
Photolysis of water 1
Pitzer coefficients 699
Platinum, -(Creat)$_2$I$_2$ · 3H$_2$O (*cis*), X-ray 1189
Polarography 287, 397
Polyamides 1299
Polycarbonates 1299
Polycyclic benzenoide systems 1125
Polyesters 1299
Polymers 1125
Potassium copper arsenate, X-ray 1103
Potential shifts 649
Potentiometry 71, 1069
Pristiphora erichsonii (Hartig) 833
Prochiral ketones 525
Prodigiosene 505
Propylene carbonate 71
Push-pull system 1113
Pyrano[3,2-c]quinoline alkaloids 781
Pyrazoles 253
Pyrazoles, aryl- and hetaryl- 1037
Pyrazolo[3,4-b]pyridines 597
4-Pyrazolylketones 253
Pyridazin-6(1*H*)-one 985
Pyridazines 751
Pyridazinones 985
Pyridinemethanoles 1427
Pyridinium oximes 1069
(1*H*,7*H*)-Pyrido[1,2,3-de](4,7)-phenanthroline 761
Pyrido[2',3' : 3,4]pyrazolo[5,1-c](1,2,4)-benzotriazines 597
(1*H*,7*H*)-Pyrido[3,2,1-gh](1,7)-phenanthroline 761
1*H*-Pyrido[3,2-c]-1,3,4-thiadiazines 333
Pyrido[3,2-g]quinoline 761
Pyridones 985
1-(2-Pyridylazo)-2-naphthol 677
Pyrimidines, 4-chloro-5-hydroxy- 953
1*H*-Pyrimido[4,5-b]indole-2,4(3*H*,9*H*)-dione 97
2-Pyrone, synthesis 727
Pyrrinones 965
Pyrrole pigments 113, 247, 505, 605, 739, 793, 813, 965, 1031, 1155
Pyrroles, reactivity of 1031
Pyrrolidino[2,3-b]-1,5-benzodiazepin-2,3-dione, substituted 367
Pyrrolo[1,2-a]quinazolin-5-ones 1405
5(1*H*)-Pyrromethenone 605

Quantum chemistry, Zr_6cluster compounds 1365
Quinazoline-2,4-diones 1405
Quinizarin, complexes 683
2(1*H*)-Quinolinones 1169
Quinolones 761

Raman spectra 863
Rare earth complexes 389, 669, 903, 1345
Rare earth element *p*-nitrobenzoates 407
Razemization 839
Reactivity, of pyrroles 1031
Rearrangement 597
Rearrangement of 3,1,5-benzoxadiazepines 1279
Rearrangement, ketenoid 727
Redox potentials, under strain of the electrode 661
Redox reactions 1311
Redox systems, with Ag ions 71
Reduction, cathodic 223
Regioselective hydrogenation, of 1,7-phenanthrolines 761
Reissert-type reaction 751
Relaxations of potential 649
Resolution 933
Rhenium-uranium-carbide, X-ray 319
Ring interconversion, in 8-membered rings 233
Ring transformation reactions 463
Ruta oreojasme 1333
Rutaceae 1169

Salting-out agent 693
Samarium nitrate 143
Samarium nitrato complexes 143
Sandalwood, odiferous principle 711
Sandmeyer reaction 91
Schmidt reaction 597
Semmler-Wolff aromatization 597
Sensitized fluorescence 669
Sensitizers, tris-(2,2'-bipyridin)ruthenium(II) complexes 1
Sialic acids, derivatives, reaction with tributyltinhydride 127

Sigmatropic rearrangement 781
Silanes 1051
Silanes, cyclopoly- 873
—, diphenylphosphino- 1241
—, oligo- 65
Silver, mechano-electrochemical effects 661
Silyl 165
Silylated urazoles, 29-Si and 13-C NMR 457
Sodium compounds 31
Sodium copper arsenate, X-ray 1103
Sodium halides 277
Solid electrolyte 301
Solubility 17
Solute—solvent interaction 1207, 1223
Solvation mechanism 1207, 1223
Solvatochromism 1251
Solvent effects 1207, 1223, 1251
2,2′-Spirobiindane-1,1′-diones 625
2,2′-Spirobiindane-1-ones 625
2,2′-Spirobiindanes 625
"*Späth* type" chromene synthesis 781
Stabilization energy 1125
Stepwise stability constants 295
Stereochemistry 65, 113, 233, 525
Stereoelectronic effects 813
Steroidal cyclobutanones 845
Strontium 157
Substituent effect 477, 929
Sulphuric acid 1357

Tautomeric structures, 1,2,4-triazoles 341
Tautomerism, of biladi- and trienes 739
Telluric acid (VI), dissociation 1369
Tellurite, copper-hydroy-sulfate, X-ray 311
Tetrahydrofurofuran lignans, X-ray 1143
Tetramethylammonium calcium triazide, X-ray 1245
Thermal analysis 1189
Thermodynamics 31, 545
Thermolysis 97
1,3,4-Thiadiazines 333
1,3-Thiazine-2-thiones 463
1,3-Thiazine-6-thiones 463
1,3-Thiazinium salts 463
Thiazolinones 333
Thiazolo[2,3-c][1,4]benzoxazines 1439
Thieno[2,3-b]quinoxalines 367
Thiophilic—carbophilic 1179
Thiopyrano[1]benzothiophenones 945
Thiosemicarbazides, 1,4-disubstituted 333
Thorium(IV), mixed ligand complexes 683
p-Tolylphenyltrisilanes 1051
Total synthesis 1169
Transition metal complexes, theory 1263
Tri-*n*-butyl phosphate 693
1,2,4-Triazoles 349
Triazoles, amino- 1041
1,2,4-Triazoles, tautomeric structures 341
1,2,4-Triazolo[1,5-a]pyrimidinones 341
1,2,4-Triazolo[4,3-a]pyrimidinones 341
Triazolo[4,3-b](1,2,4)-triazines 591
Tributyltinhydride, reaction with sialic acid derivatives 127
1,1,1-Trichloroethanal 1031
Trichloromethyl lithium 1427
Trichlorophenyl malonates 727
2,2,2-Trichloroethoxy derivatives of Cr(III) 553
p-(Tricyanovinylidene)phenylhydrazones 1375
Tricyclo[7.3.1.$0^{2,7}$]tridecanes, ring A aromatized 195
Trideuteroborane 1179
Triethylphosphine oxide 1207, 1223
Trifluoroacetamidrazone 349
Trimethylammonium acetic acid betain 103
Tris-(2,2′-bipyridin)ruthenium(II) complexes, as sensitizer 1
Trisilanes 1051
Trisilylphosphanes 851, 863

Ultraviolet absorbers 1299
Ultraviolet-vis spectra 873, 929, 993
Uranium-rhenium carbide, X-ray 319
Uranyl ion, electroreduction 287
Urazoles, persilylated, 29-Si and 13-C NMR 457
Urea derivatives, IR 439

3-Vinylindoles 1289
Virial coefficients approach 1201

Vivakorfen 263
Voltammetric reduction, of phenolphthalein 429

Water photolysis 1

X-ray, s. Crystal structure
Xanthogenates of sialic acids 127

Ytterbium(III), extraction 389
Yttrium(III), mixed ligand complexes 533

Zeolites 913
Zirconium cluster compounds 1365
Zwitter ion 53, 173